

TWIN TRIODE

DESCRIPTION

The GL-6201 is a miniature twin triode designed for use as a grounded-grid amplifier or as a frequency converter in very-high-frequency applications. The tube is specially designed to assure dependable life and reliable service under the exacting

conditions encountered in mobile and aircraft applications. Features include a high degree of mechanical strength and a heater-cathode construction designed to withstand many-thousand cycles of intermittent operation.

TECHNICAL INFORMATION

GENERAL

Electrical Data

Cathode—Coated Unipotential

Heater Voltage (A-c or D-c)	6.3	12.6	Volts
Heater Current	0.3	0.15	Ampere
Direct Interelectrode Capacitances	With Shield*	Without Shield	
Grid to Plate (Each Section)	1.6	1.6	uuf
Input (Each Section)	2.5	2.3	uuf
Output (Section 1)	1.2	0.4	uuf
Output (Section 2)	1.3	0.38	uuf
Heater to Cathode (Each Section)	2.8	2.8	uuf
Grounded-Grid Operation	With Shield†	Without Shield	
Plate to Cathode (Section 1)	0.18	0.2	uuf
Plate to Cathode (Section 2)	0.2	0.24	uuf
Input (Each Section)	5.0	5.0	uuf
Output (Section 1)	2.7	1.9	uuf
Output (Section 2)	2.7	1.8	uuf


Electronic
TUBE

GENERAL  ELECTRIC

TECHNICAL INFORMATION (CONT'D)

Mechanical Data
 Mounting Position—Any
 Envelope—T-6½ Glass
 Base—Small Button 9-Pin, E9-1

MAXIMUM RATINGS

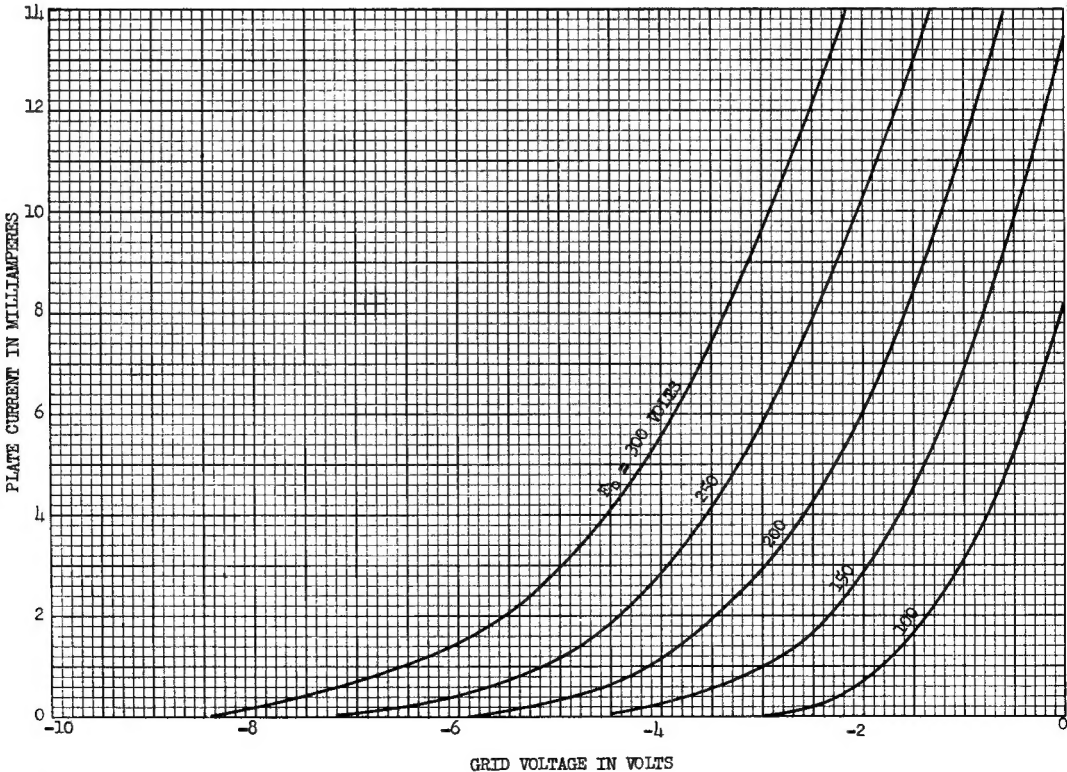
Electrical—Design Center Values—Each Section	
Plate Voltage.....	300 Volts
Negative D-c Grid Voltage.....	50 Volts
Plate Dissipation.....	2.5 Watts
Heater-Cathode Voltage.....	90 Volts
Mechanical	
Peak Impact Acceleration in Any Direction.....	600 G

CHARACTERISTICS AND TYPICAL OPERATION

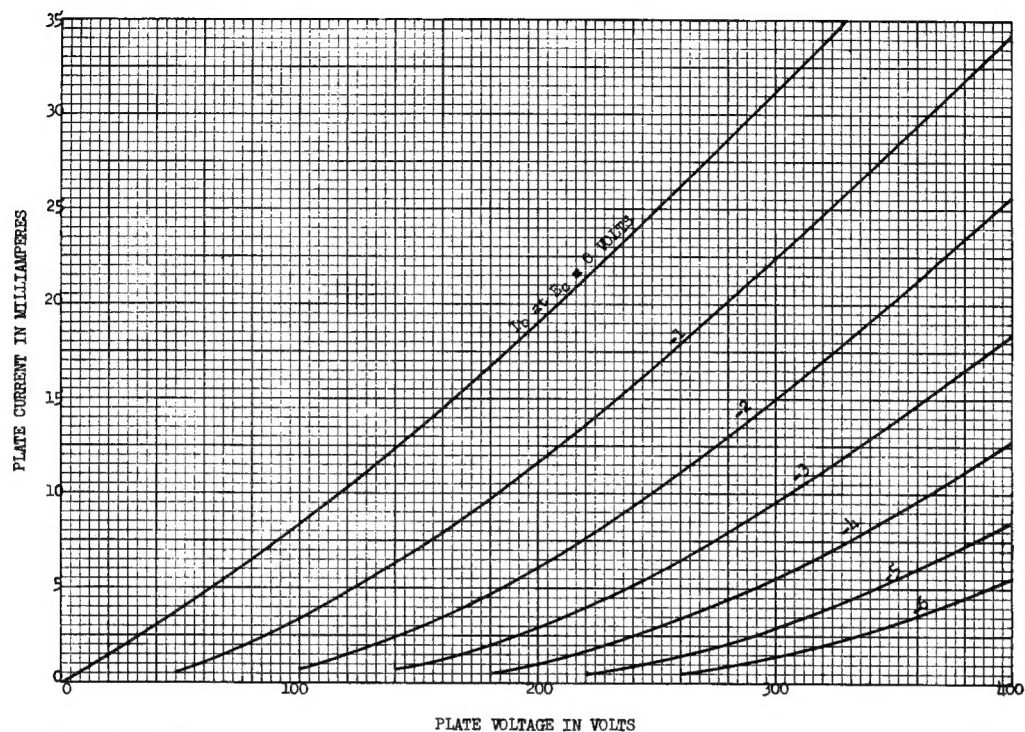
Class A ₁ Amplifier—Each Section		
Plate Voltage.....	100	250 Volts
Cathode Bias Resistor.....	270	200 Ohms
Amplification Factor.....	57	60
Plate Resistance, approximate.....	14,300	10,900 Ohms
Transconductance.....	4000	5500 Micromhos
Plate Current.....	3.3	10 Milliamperes
Grid Voltage, approximate for I _b = 10 Microamperes.....	−5	−12 Volts

* With external shield No. 315 connected to cathode of section under test.
 † With external shield No. 315 connected to grid of section under test.

**AVERAGE CHARACTERISTICS
 (EACH SECTION)**



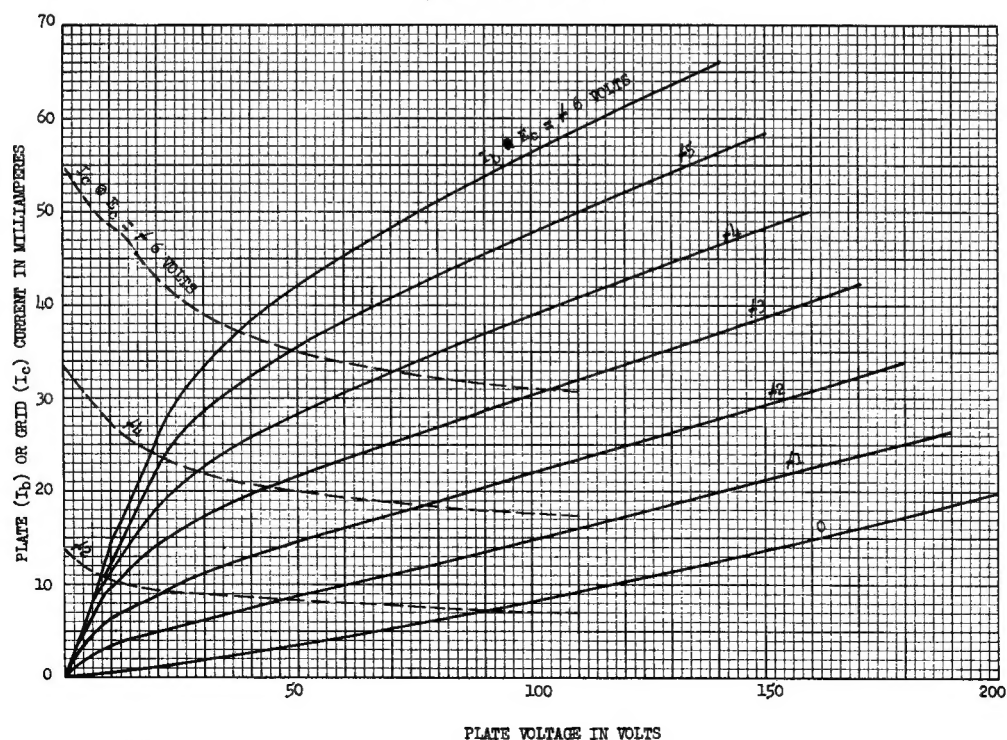
AVERAGE PLATE CHARACTERISTICS (EACH SECTION)



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AVERAGE PLATE CHARACTERISTICS (EACH SECTION)



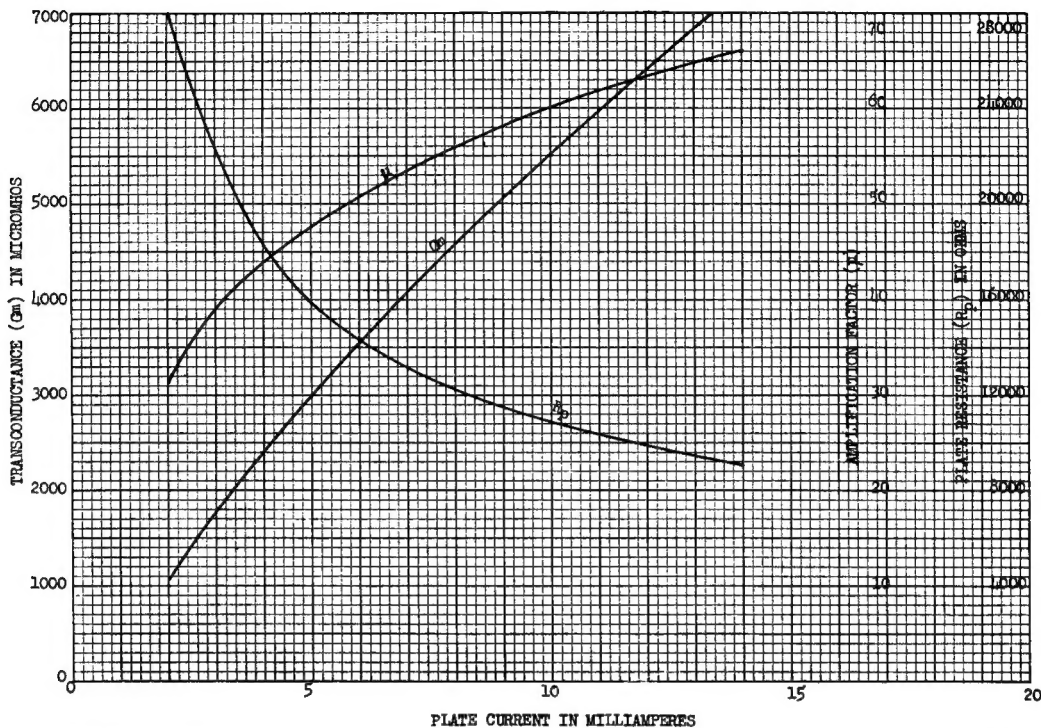
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AVERAGE CHARACTERISTICS
(EACH SECTION)

$E_r = 12.6$ VOLTS

PLATE VOLTAGE = 250 VOLTS

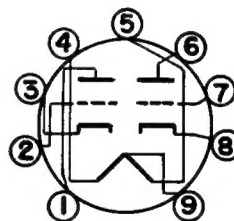
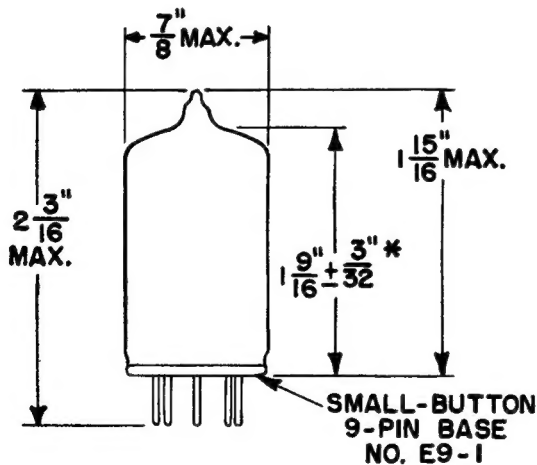


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OUTLINE

BASING DIAGRAM



9A

- PIN 1: PLATE (SECTION NO. 2)
- PIN 2: GRID (SECTION NO. 2)
- PIN 3: CATHODE (SECTION NO. 2)
- PIN 4: HEATER
- PIN 5: HEATER
- PIN 6: PLATE (SECTION NO. 1)
- PIN 7: GRID (SECTION NO. 1)
- PIN 8: CATHODE (SECTION NO. 1)
- PIN 9: HEATER CENTER-TAP

*MEASURED FROM BASE SEAT TO BULB-TOP LINE
AS DETERMINED BY RING GAGE OF 7/16" I.D.

N-15155AZ

4-3-52

Tube Department

GENERAL ELECTRIC

Schenectady, N. Y.